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TITLE: HEAT PIPE
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ABSTRACT:

PURPOSE: To obtain a heat pipe having an excellent heat transfer performance and the uniformity in the heat transfer performance by a method wherein a wick holder made of shape memory alloy is placed in a heat pipe container together with wicks, and the wicks are brought into close contact with the inner wall of the heat pipe container by the shape restoring force of the wick holder.

CONSTITUTION: For example, a piece of copper tube with a

closed end is used
as heat pipe container 1. A large number of very fine
copper wires used as
wicks 2 are placed in the container. A coil 3 made of
Ni-Ti type shape memory
alloy is inserted inside the wicks and they are heated
together to expand the
coil 3, so that the wicks are brought into close contact
with the inner wall of
the heat pipe container. Then, the container is filled
with water as working
liquid and sealed at its one end to produce a micro heat
pipe.

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